

ABSTRACT OF THE DISCLOSURE

A burner fuel mixer head includes a primary housing and a secondary housing. The primary housing has a fuel/air mixing chamber with a mixed fuel gas inlet. The secondary housing has a fuel mixing chamber. A venturi throat with converging sidewalls is positioned in the mixed fuel gas inlet of the primary housing. A venturi nozzle communicates with a pressurized fuel gas inlet with a first end of the venturi nozzle extending into the fuel mixing chamber in axial alignment with the venturi throat. This forms a venturi, such that a pressurized flow of pressurized fuel gas through the venturi draws low pressure fuel gas from the fuel mixing chamber of the secondary housing through the mixed fuel gas inlet into the fuel/air mixing chamber of the primary housing.